THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:-

/WHAT I CLAIM AS MY INVENTION:-

1. A biomechanically correct pedal powered paddling system for small watercrafts comprising:

a. a watercraft attaching frame having:

i. a central width-adjustable joining portion,

ii. two opposing watercraft-clamping members for attaching said frame to watercraft gunwale,

iii. two opposing pedal-assembly receiving portions,

iv. two opposing primary linkage pivoting members,

v. frame extension extending perpendicularly from each end portion of said frame, and

vi. two opposing secondary linkage pivoting members,

b. a pedal drive assembly having;

i. a primary pedal drive shaft having extension receiving female members at each end,

ii. two drive shaft extensions having non-rotatable male ends longitudinally adjustably mating with female drive shaft members and paddle drive members distal from the primary drive shaft, and

iii. two foot pedals rotably attached to offset member integral with pedal drive shaft forming crank member,

c. an upper and lower paddle-attaching portion each having:

i. a paddle receiving portion,

ii. a linkage attaching portion having single axis rotational freedom from paddle receiving portion, and

iii. releasable paddle locking member,

d. a linkage array having:

.i. a paddle crank having a non-rotational female end adapted to receive the male end of the drive shaft extensions, and a rotational end adapted to secure to the linkage attaching portion of the above paddle receiving portion,

ii. a swing lever,

iii. a diagonal support member,

iv. a vertical member, and

v. a plurality of pivotal axle members

2. The biomechanically correct pedal powered paddling system of claim 1 wherein the drive portion comprises a drive extension at each end thereof having a longitudinally slidable non-rotational joint therebetween.

3. The biomechanically correct pedal powered paddling system of claim 1 wherein the paddle crank arm is rotably driven by force generated by rotational motion of the pedal drive assembly.

4. The biomechanically correct pedal powered paddling system of claim 1 wherein upper and lower paddle clamps are adapted with a quick-release apparatus for easy removal of said paddles.

5. The biomechanically correct pedal powered paddling system of claims 1 through 4 wherein use thereof is for propelling a small watercraft using ones leg power or other forms of manual or mechanical force, while synthesizing the biomechanical motion of conventional arm powered paddling.